

ABSTRACT OF THE DISCLOSURE

Co/Pd or Co/Pt superlattice is provided to enable magnetic recording devices to sustain good recording/readback performances across a wide range of 5 temperatures. Such a superlattice medium includes a substrate and a magnetic layer formed on the substrate and the magnetic layer comprises multilayer superlattice films of ferromagnetic metal layers which contain Co and paramagnetic metal layers which consist 10 of Pd and/or Pt, wherein the ferromagnetic metal layers further contain a paramagnetic element and the thickness of the paramagnetic metal layers is 0.8 nm or less. When a magnetic torque loop of the perpendicular magnetic recording medium is measured with a torque 15 magnetometer, the polarity of a value of loop components with translational symmetry of 90 degrees should be opposite to the polarity of a value of loop components with translational symmetry of 180 degrees. Perpendicular magnetic recording media of high 20 performance are achieved in which high recording/readback signal quality is achieved and change in superlattice magnetic properties with extreme temperature change is suppressed.